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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/654,548	09/01/2003	Chih Hao Yiu	4054JE	5094
75	90 07/06/2004		EXAMINER	
Chih Hao YIU			DURAND, PAUL R	
P.O. Box 63-298 Taichung, 406			ART UNIT	PAPER NUMBER
TAIWAN			3721	
			DATE MAILED: 07/06/200-	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Assign Commence	10/654,548	YIU, CHIH HAO				
Office Action Summary	Examiner	Art Unit				
	Paul Durand	3721				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONEE	ely filed  will be considered timely. the mailing date of this communication.  (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
,— ······ ,—						
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-5 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or						
Application Papers						
9)☐ The specification is objected to by the Examine 10)☐ The drawing(s) filed on <u>01 September 2003</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11)☐ The oath or declaration is objected to by the Examine 100.	re: a)⊠ accepted or b)□ object drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)	. 🗖					
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date <u>09/03</u>.</li> </ol>	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

Application/Control Number: 10/654,548

Art Unit: 3721

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In regard to claim 1 and as the claim is written, it is not clear to the examiner how the plunger of the device can have a spring force applied to move it in a driving direction when the solenoid has already applied a driving force to the plunger. As the examiner understands the invention the solenoid moves the plunger towards the spring (opposite the driving direction), and then using the bias force on the spring to move the plunger in a driving direction.

In regard to claim 2, it is not clear to the examiner what the order of the steps are. In the claim, Lines 12-14 recite "energizing said solenoid ... said solenoid, and", while lines 15-17 recite "applying a spring ... said solenoid". It appears that these steps are reversed. The examiner does not see how the solenoid can apply a force to the plunger when the plunger is not inside of the solenoid. It appears that the spring must first move, at least, part of the plunger into the solenoid for the plunger to attain any electro magnetic force.

Application/Control Number: 10/654,548

Art Unit: 3721

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Avery et al (US 3,924,789).

In regard to claim 1, Avery discloses the invention as claimed including energizing solenoid 34, to move the plunger in the form of armature 2 in a direction opposite the driving direction, which compresses springs 76 of biasing assembly 36 and moving the plunger in a driving direction using the force applied to biasing assembly 36 (see Fig. 1,C2,L61 – C3,L21 and C3,L67 – C4,L18).

### Allowable Subject Matter

- 5. Claim 2 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.
- 6. Claim 3-5 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Application/Control Number: 10/654,548 Page 4

Art Unit: 3721

#### Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Doyle, Gershnow, Buck et al, Weber, Kerrigan, Tsai and Arnold et al have been cited to show devices having similar structure.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Durand whose telephone number is 703-305-4962. The examiner can normally be reached on 0730-1800, Monday - Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi I Rada can be reached on 703-308-2187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul Durand July 1, 2004

EUGENE KIM
PRITARY EXAMINER

Garek